PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:)	DIMENSIONS")
)	
ROCKWOOD et al.)	Prior Group Art Unit: 2671
)	
Serial No.: Not Yet Assigned)	Prior Examiner: Lance W. Sealey
)	
Filed: Herewith)	**INFORMATION DISCLOSURE**
)	**STATEMENT**
Atty. File No.: 3404-2-1)	
)	
For "COMPUTATIONAL GEOMETRY)	Express Mail Label: EV 331286156 US
USING CONTROL GEOMETRY.)	
HAVING AT LEAST TWO)	
DIMENSIONS")	

Assistant Commissioner for Patents
Washington, D. C. 20231

Sir:

The references cited on attached Form PTO-1449 are being called to the attention of the Examiner. Copies of the cited references:

☒ Enclosed herewith are two references which are labeled with an asterisk. All other references are not enclosed.

☒ Are not enclosed, in accordance with 37 C.F.R. 1.98(d), because the references were submitted to the U.S. Patent and Trademark Office in prior application Serial No. 09/360,029 filed July 23, 1999, which is relied upon for an earlier filing date under 35 U.S.C. § 120

☐ To the best of applicants' belief, the pertinence of the foreign-language references are believed to be summarized in the attached English abstracts and in the figures, although applicants do not necessarily vouch for the accuracy of the translation.

☒ Examiner's attention is drawn to the following co-pending applications, copies of which have been or are being submitted:

Serial No. 09/360,029 filed July 23, 1999

Submission of the above information is not intended as an admission that any item is citable under the statutes or rules to support a rejection, that any item disclosed represents analogous art, or that those skilled in the art would refer to or recognize the pertinence of any reference without the benefit of hindsight, nor should an inference be drawn as to the pertinence of the references based on the order in which they are presented.

Submission of this statement should not be taken as an indication that a search has been conducted, or that no
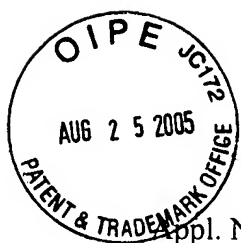
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No.   :   10/689,693

Applicant   :   LEE et al.

Filed: :   October 20, 2003

Group Art Unit   :   2671

Examiner   :   SEALEY, Lance W.

Docket No.   :   3404-2-1

Customer No.   :   22442

Title   :   "COMPUTATIONAL GEOMETRY USING CONTROL
                          GEOMETRY HAVING AT LEAST TWO DIMENSIONS"

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DATE OF DEPOSIT: _August 25, 2005_

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REQUEST FOR CONSIDERATION OF
INFORMATION DISCLOSURE STATEMENT

Dear Sir:

Applicants have not received any information on the Information Disclosure Statement previously filed with the application on October 20, 2003. A copy of the Information Disclosure Statement and PTO Form-1449 is enclosed for your convenience, along with a copy of the returned postcard receipt. Applicants respectfully request consideration of the Information Disclosure Statement.

Respectfully submitted,

SHERIDAN ROSS P.C.

By_____

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Date: _Aug. 25, 2005_

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Certification (37 C.F.R. 1.97(e))
(Applicable only if checked)

☐ The undersigned certifies that:

☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement. 37 C.F.R. 1.97(e)(1).
☐ A copy of the communication from the foreign patent office is enclosed.

OR

☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known to any individual designated in 37 C.F.R. 1.56(c) more than more than three months prior to the filing of this statement. 37 C.F.R. 1.97(e)(2).
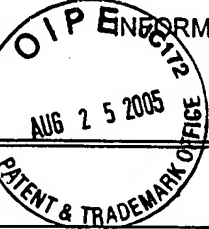
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FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 3404-2-1	SERIAL NO. Not Yet Assigned

INFORMATION DISCLOSURE STATEMENT
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APPLICANT
ROCKWOOD et al.

FILING DATE
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GROUP ART
2671

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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
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	3	6,133,922	10/17/2000	Opitz	345	420	
	4	5,966,133	10/12/1999	Hoppe	345	420	
	5	5,963,209	10/5/1999	Hoppe	345	419	
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EXAMINER	DATE CONSIDERED

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PATENT AND TRADEMARK OFFICE	3404-2-1	Not Yet Assigned

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(Use several sheets if necessary)

APPLICANT
ROCKWOOD et al.

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	44	Lodha et al, "Duality between Degree Elevation and Differentiation of B-bases and L-bases", from <u>Mathematical Methods for Curves and Surfaces</u>, Editors: Lyche and Schumaker, copyright *Vanderbilt University Press* 1995, pp. 305-314, ISBN 8265-1268-2

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	45	Dyn et al., "Piecewise Uniform Subdivision Schemes", from <u>Mathematical Methods for Curves and Surfaces</u>, Editors: Lyche and Schumaker, copyright *Vanderbilt University Press* 1995, pp. 111-119, ISBN 8265-1268-2
	46	Ellens et al., "An Approach to $C^{(1)}$ and $C^{(0)}$ Feature Lines", from <u>Mathematical Methods for Curves and Surfaces</u>, Editors: Lyche and Schumaker, copyright *Vanderbilt University Press* 1995, pp. 121-132, ISBN 8265-1268-2
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	48	M.S. Floater, "Rational Cubic Implicitization", from <u>Mathematical Methods for Curves and Surfaces</u>, Editors: Lyche and Schumaker, copyright *Vanderbilt University Press* 1995, pp. 151-159, ISBN 8265-1268-2
	49	Baining Guo, "Avoiding Topological Anomalies in Quadric Surface Patches", from <u>Mathematical Methods for Curves and Surfaces</u>, Editors: Lyche and Schumaker, copyright *Vanderbilt University Press* 1995, pp. 177-186, ISBN 8265-1268-2
	50	Jan Hadenfeld, "Local Energy Fairing of B-Spline Surfaces", from <u>Mathematical Methods for Curves and Surfaces</u>, Editors: Lyche and Schumaker, copyright *Vanderbilt University Press* 1995, pp. 203-212, ISBN 8265-1268-2
	51	Hermann et al., "Techniques for Variable Radius Rolling Ball Blends", from <u>Mathematical Methods for Curves and Surfaces</u>, Editors: Lyche and Schumaker, copyright *Vanderbilt University Press* 1995, pp. 225-236, ISBN 8265-1268-2
	52.	Hoschek et al., "Interpolation and Approximation with Developable B-Spline Surfaces", from <u>Mathematical Methods for Curves and Surfaces</u>, Editors: Lyche and Schumaker, copyright *Vanderbilt University Press* 1995, pp. 255-264, ISBN 8265-1268-2
	53	Leif Kobbelt, "Interpolatory Refinement as a Low Pass Filter", from <u>Mathematical Methods for Curves and Surfaces</u>, Editors: Lyche and Schumaker, copyright *Vanderbilt University Press* 1995, pp. 281-290, ISBN 8265-1268-2
	54	Kolb et al., "Surface Reconstruction Based Upon Minimum Norm Networks", from <u>Mathematical Methods for Curves and Surfaces</u>, Editors: Lyche and Schumaker, copyright *Vanderbilt University Press* 1995, pp. 293-304, ISBN 8265-1268-2
	55	Stephen Mann, "Using Local Optimization in Surface Fitting", from <u>Mathematical Methods for Curves and Surfaces</u>, Editors: Lyche and Schumaker, copyright *Vanderbilt University Press* 1995, pp. 323-332, ISBN 8265-1268-2
	56	Manni et al., "C^1 Comonotone Hermite Interpolation via Parametric Surfaces", from <u>Mathematical Methods for Curves and Surfaces</u>, Editors: Lyche and Schumaker, copyright *Vanderbilt University Press* 1995, pp. 333-342, ISBN 8265-1268-2
	57	A. Markus et al., "Genetic Algorithms in Free Form Curve Design", from <u>Mathematical Methods for Curves and Surfaces</u>, Editors: Lyche and Schumaker, copyright *Vanderbilt University Press* 1995, pp. 43-354, ISBN 8265-1268-2
	58	Even Mehlum, "Appeal and the Apple (Nonlinear Splines in Space)", from <u>Mathematical Methods for Curves and Surfaces</u>, Editors: Lyche and Schumaker, copyright *Vanderbilt University Press* 1995, pp. 365-384, ISBN 8265-1268-2
	59	Helmut Pottmann, "Studying NURBS curves and Surfaces with Classical Geometry", from <u>Mathematical Methods for Curves and Surfaces</u>, Editors: Lyche and Schumaker, copyright *Vanderbilt University Press* 1995, pp. 413-438, ISBN 8265-1268-2
	60	R. Schaback, "Creating Surfaces from Scattered Data Using Radial Basis Functions", from <u>Mathematical Methods for Curves and Surfaces</u>, Editors: Lyche and Schumaker, copyright *Vanderbilt University Press* 1995, pp. 477-496, ISBN 8265-1268-2
	61	Sederberg, "Shape Blending of 2-D Piecewise Curves", from <u>Mathematical Methods for Curves and Surfaces</u>, Editors: Lyche and Schumaker, copyright *Vanderbilt University Press* 1995, pp. 497-506, ISBN 8265-1268-2

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INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		APPLICANT ROCKWOOD et al.	
		FILING DATE Herewith	GROUP ART 2671

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	63	Kenji Ueda, "Normalized Cyclide Bezier Patches", from <u>Mathematical Methods for Curves and Surfaces</u>, Editors: Lyche and Schumaker, copyright *Vanderbilt University Press* 1995, pp. 507-516, ISBN 8265-1268-2
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	65	J. Warren, "Binary Subdivision Schemes for Functions over Irregular Know Sequences", from <u>Mathematical Methods for Curves and Surfaces</u>, Editors: Lyche and Schumaker, copyright *Vanderbilt University Press* 1995, pp. 543-562, ISBN 8265-1268-2
	66	T.D. DeRose, "Applications of Multiresolution Surfaces", <u>The Mathematics of Surfaces VII</u>, Editors: Goodman and Martin, *Information Geometers*, 1997, pp. 1-15
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	78	Peters et al., "Smooth blending of basic surfaces using trivariate box splines", <u>The Mathematics of Surfaces VII</u>, Editors: Goodman and Martin, *Information Geometers*, 1997, pp. 409-426
	79	R.E. Barnhill, "Computer Aided Surface Representation and Design", <u>Surfaces In Computer Aided Geometric Design</u>, North-Holland Publishing, 1983, pp. 1-24
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	88	Atteia et al., "Spline elastic Manifolds", *Mathematical Methods in Computer Aided Geometric Design*, Editors: Lynch and Schumaker, 1989, pp. 45-50
	89	Barry et al., "What is the Natural Generalization of a Bezier Curve?", *Mathematical Methods in Computer Aided Geometric Design*, Editors: Lynch and Schumaker, 1989, pp. 71-85
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FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 3404-2-1	SERIAL NO. Not Yet Assigned
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:)	Group Art Unit: 2671
)	
LEE et al.)	Examiner: SEALEY, Lance W.
)	
Serial No.: 10/689,693)	**INFORMATION DISCLOSURE**
)	**STATEMENT**
Filed: October 20, 2003)	
)	
Atty. File No.: 3404-2-1)	"EXPRESS MAIL" MAILING LABEL NUMBER: EV556791935US
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Sir:

The references cited on attached Form PTO-1449 are being called to the attention of the Examiner.

☒　　Copies of the cited foreign patents and/or non-patent references are enclosed herewith.

☐　　Copies of the cited U.S. patents and/or U.S. patent application publications are not enclosed in accordance with 69 F.R. 56482.

☐　　Copies of the cited references are not enclosed, in accordance with 37 C.F.R. 1.98(d), because the references were submitted to the U.S. Patent and Trademark Office in prior application Serial No. ＿ _____ filed _____, which is relied upon for an earlier filing date under 35 U.S.C. § 120.

☐　　To the best of applicants' belief, the pertinence of the foreign-language references are believed to be summarized in the attached English abstracts and in the figures, although applicants do not necessarily vouch for the accuracy of the translation.

☐　　Examiner's attention is directed to the following co-pending application(s) for which priority is not being claimed, copies have been or are being submitted:

Serial No. _____ filed _____ (Atty. Dckt. No. _____)

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Submission of the above information is not intended as an admission that any item is citable under the statutes or rules to support a rejection, that any item disclosed represents analogous art, or that those skilled in the art would refer to or recognize the pertinence of any reference without the benefit of hindsight, nor should an inference be drawn as to the pertinence of the references based on the order in which they are presented. Submission of this statement should not be taken as an indication that a search has been conducted, or that no better art exists.

It is respectfully requested that the cited information be expressly considered during the prosecution of this application and the references made of record therein.

FEES

☐	**37 CFR 1.97(b):** No fee is believed due in connection with this submission, because the information disclosure statement submitted herewith is satisfies one of the following conditions ("X" indicates satisfaction): ☐ Within three months of the filing date of a national application other than a continued prosecution application under 37 CFR 1.53(d), or ☐ Within three months of the date of entry into the national stage of an international application as set forth in 37 CFR 1.491 or ☐ Before the mailing date of a first Office Action on the merits, or ☐ Before the mailing of a first Office action after the filing of a Request for Continued Examination (RCE) under 37 CFR 1.114. Although no fee is believed due, if any fee is deemed due in connection with this submission, please charge such fee to Deposit Account 19-1970.
☒	**37 CFR 1.97(c):** The information disclosure statement transmitted herewith is being filed after all the above conditions (37 CFR 1.97(b)), but before the mailing date of one of the following conditions: (1) a final action under 37 C.F.R. 1.113 or (2) a notice of allowance under 37 C.F.R. 1.311, or (3) an action that otherwise closes prosecution in the application. This Information Disclosure Statement is accompanied by: ☐ A Certification (below) as specified by 37 C.F.R. 1.97(e). Although no fee is believed due, if any fee is deemed due in connection with this submission, please charge such fee to Deposit Account 19-1970. OR ☒ A check in the amount of $180.00 for the fee set forth in 37 C.F.R. 1.17(p) for submission of an information disclosure statement. Please credit any overpayment or charge any underpayment to Deposit Account No. 19-1970.
☐	**37 CFR 1.97(d):** This Information Disclosure Statement is being submitted after the period specified in 37 CFR 1.97(c). ☐ This information Disclosure Statement includes a Certification (below) as specified by 37 C.F.R. 1.97(e) AND ☐ Applicants hereby requests consideration of the reference(s) disclosed herein. Enclosed is the fee in the amount of $180.00 under 37 C.F.R. 1.17(p). Please credit any overpayment or charge any underpayment to Deposit Account No. 19-1970. Please credit any overpayment or charge any underpayment to Deposit Account No. 19-1970. Election to pay the fee should not be taken as an indication that applicant(s) cannot execute a certification.

Certification (37 C.F.R. 1.97(e))
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☐ The undersigned certifies that:

☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement. 37 C.F.R. 1.97(e)(1).

☐ A copy of the communication from the foreign patent office is enclosed.
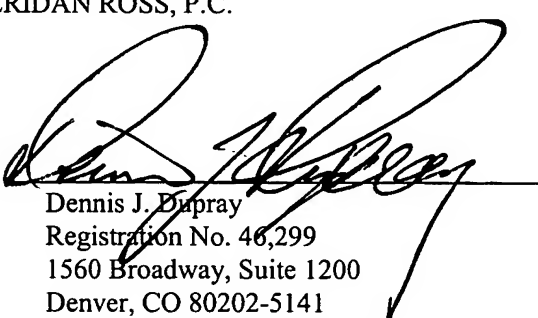
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☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known to any individual designated in 37 C.F.R. 1.56(c) more than more than three months prior to the filing of this statement. 37 C.F.R. 1.97(e)(2).

Respectfully submitted,

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Date: Aug. 25, 2005
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Substitute for form 1449A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Application Number	10/689,693
		Filing Date	October 20, 2003
		First Named Inventor	ROCKWOOD et al.
		Art Unit	2671
		Examiner Name	SEALEY, Lance W.

Sheet	1	of	1	Attorney Docket Number	3404-2-1

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.[1]	Document Number Number-kind Code [2 (if known)]	Publication Date MM-DD-YYYY	Name of Patentee of Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3]; Number[4]; Kind Code[5] *(if known)*		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
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OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)		
Examiner Initials*	Cite No.[1]	
	1	"Part Modeling User's Guide: Surface Features"; (date unknown); 41 pp.

Examiner Sigature		Date Considered	

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